

## EAST Search History

## EAST Search History (Prior Art)

| Ref # | Hits   | Search Query                                         | DBs                       | Default Operator | Plurals | Time Stamp          |
|-------|--------|------------------------------------------------------|---------------------------|------------------|---------|---------------------|
| L6    | 210546 | poly\$acrylate and lyocel and silver nitrate         | US-PGPUB;<br>USPAT; USOCR | OR               | OFF     | 2009/08/17<br>08:21 |
| L7    | 0      | poly\$acrylate and lyocel and silver with nitrate    | US-PGPUB;<br>USPAT; USOCR | OR               | OFF     | 2009/08/17<br>08:22 |
| L8    | 52     | poly\$acrylate and lyocell and silver with nitrate   | US-PGPUB;<br>USPAT; USOCR | OR               | OFF     | 2009/08/17<br>08:22 |
| S1    | 71     | lyocell and silver and impregnation                  | US-PGPUB;<br>USPAT; USOCR | OR               | OFF     | 2009/02/19<br>16:13 |
| S2    | 0      | lyocell and silver and impregnation and "162". clas. | US-PGPUB;<br>USPAT; USOCR | OR               | OFF     | 2009/02/19<br>16:13 |
| S3    | 71     | lyocell and silver and impregnation                  | US-PGPUB;<br>USPAT; USOCR | OR               | OFF     | 2009/02/19<br>16:14 |
| S4    | 90     | lyocell and silver and impregnated                   | US-PGPUB;<br>USPAT; USOCR | OR               | OFF     | 2009/02/19<br>16:14 |
| S5    | 2      | lyocell and silver and impregnated and "162". clas.  | US-PGPUB;<br>USPAT; USOCR | OR               | OFF     | 2009/02/19<br>16:14 |
| S6    | 121    | evan and KOSLOW                                      | US-PGPUB;<br>USPAT; USOCR | OR               | OFF     | 2009/02/19<br>16:19 |
| S7    | 1      | evan and KOSLOW and "662"                            | US-PGPUB;<br>USPAT; USOCR | OR               | OFF     | 2009/02/19<br>16:19 |
| S8    | 4      | evan and KOSLOW and integrated and paper             | US-PGPUB;<br>USPAT; USOCR | OR               | OFF     | 2009/02/19<br>16:20 |
| S9    | 3      | ((REINER) near2 (BUETTNER)).INV.                     | US-PGPUB;<br>USPAT        | OR               | OFF     | 2009/02/19<br>17:24 |
| S10   | 2      | ((HARDY) near2 (MARKWITZ)).INV.                      | US-PGPUB;<br>USPAT        | OR               | OFF     | 2009/02/19<br>17:26 |
| S11   | 4      | ((CARMEN) near2 (KNOBELSDORF)).INV.                  | US-PGPUB;<br>USPAT        | OR               | OFF     | 2009/02/19<br>17:27 |
| S12   | 17     | ((RALF) near2 (BAUER)).INV.                          | US-PGPUB;<br>USPAT        | OR               | OFF     | 2009/02/19<br>17:28 |
| S13   | 1      | ((RALF) near2 (BAUER)).INV. and silver               | US-PGPUB;<br>USPAT        | OR               | OFF     | 2009/02/19<br>17:28 |
| S14   | 1      | ((RALF) near2 (BAUER)).INV. and copper               | US-PGPUB;<br>USPAT        | OR               | OFF     | 2009/02/19<br>17:28 |
| S15   | 9      | ((FRANK) near2 (MEISTER)).INV.                       | US-PGPUB;<br>USPAT        | OR               | OFF     | 2009/02/19<br>17:28 |
| S16   | 1      | ((FRANK) near2 (MEISTER)).INV. and silver            | US-PGPUB;<br>USPAT        | OR               | OFF     | 2009/02/19<br>17:29 |

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|-----|-----|-----------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|----|-----|---------------------|
| S17 | 29  | S9 S10 S11 S12 S15                                                                                                          | US-PGPUB;<br>USPAT                                 | OR | OFF | 2009/02/19<br>17:29 |
| S18 | 0   | S9 S10 S11 S12 S15                                                                                                          | EPO; JPO;<br>DERWENT                               | OR | OFF | 2009/02/19<br>17:29 |
| S19 | 10  | ((REINER) near2<br>(BUETTNER)).INV.                                                                                         | EPO; JPO;<br>DERWENT                               | OR | OFF | 2009/02/19<br>17:30 |
| S20 | 0   | ((((REINER) near2<br>(BUETTNER)).INV.) and<br>silver                                                                        | EPO; JPO;<br>DERWENT                               | OR | OFF | 2009/02/19<br>17:32 |
| S21 | 6   | ((HARDY) near2<br>(MARKWITZ)).INV.                                                                                          | EPO; JPO;<br>DERWENT                               | OR | OFF | 2009/02/19<br>17:32 |
| S22 | 4   | ((CARMEN) near2<br>(KNOBELSDORF)).INV.                                                                                      | US-PGPUB;<br>USPAT; USOCR                          | OR | OFF | 2009/02/19<br>17:32 |
| S23 | 20  | ((RALF) near2 (BAUER)).<br>INV.                                                                                             | EPO; JPO;<br>DERWENT                               | OR | OFF | 2009/02/19<br>17:39 |
| S24 | 0   | cross near2 (linked link<br>and cation near3 active<br>near3 ion near3<br>(exchanger exchangers)                            | EPO; JPO;<br>DERWENT                               | OR | OFF | 2009/02/19<br>17:45 |
| S25 | 7   | cross near2 (linked link<br>and cation near3 active<br>near3 ion near3<br>(exchanger exchangers)                            | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2009/02/19<br>17:45 |
| S26 | 152 | cross near2 (linked link<br>and cation near3 ion near3<br>(exchanger exchangers)                                            | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2009/02/19<br>17:46 |
| S27 | 22  | cross near2 (linked link<br>and cation near3 ion near3<br>(exchanger exchangers)<br>and silver and cellulose                | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2009/02/19<br>17:46 |
| S28 | 1   | cross near2 (linked link<br>and cation near3 ion near3<br>(exchanger exchangers)<br>and silver and cellulose<br>and lyocell | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2009/02/19<br>17:46 |
| S29 | 1   | "20050035057".pn.                                                                                                           | US-PGPUB;<br>USPAT; USOCR                          | OR | OFF | 2009/02/19<br>17:55 |
| S30 | 0   | superabsorbent same<br>polymer same (cation<br>cationic) and silver and<br>"162".clas.                                      | US-PGPUB;<br>USPAT; USOCR                          | OR | OFF | 2009/02/19<br>17:58 |
| S31 | 30  | superabsorbent same<br>polymer same (cation<br>cationic) and silver                                                         | US-PGPUB;<br>USPAT; USOCR                          | OR | OFF | 2009/02/19<br>17:58 |
| S32 | 4   | superabsorbent same<br>polymer same (cation<br>cationic) and silver and<br>lyocell                                          | US-PGPUB;<br>USPAT; USOCR                          | OR | OFF | 2009/02/19<br>17:58 |

|     |      |                                                                                        |                                                    |    |     |                     |
|-----|------|----------------------------------------------------------------------------------------|----------------------------------------------------|----|-----|---------------------|
| S33 | 30   | superabsorbent same polymer same (cation cationic) and silver                          | US-PGPUB;<br>USPAT; USOCR                          | OR | OFF | 2009/02/19<br>18:03 |
| S34 | 0    | superabsorbent same polymer same (cation cationic) and silver and lyocell              | EPO; JPO;<br>DERWENT                               | OR | OFF | 2009/02/19<br>18:03 |
| S35 | 31   | superabsorbent same polymer same (cation cationic) and silver                          | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2009/02/19<br>18:03 |
| S36 | 2    | "20040016909".pn.                                                                      | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2009/02/19<br>18:18 |
| S37 | 1    | "20050035057".pn.                                                                      | US-PGPUB;<br>USPAT; USOCR                          | OR | OFF | 2009/02/23<br>08:10 |
| S38 | 1    | "5853867".pn.                                                                          | US-PGPUB;<br>USPAT; USOCR                          | OR | OFF | 2009/02/23<br>11:16 |
| S39 | 3726 | superabsorbent same (crosslinked or cross-linked)                                      | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2009/02/23<br>11:55 |
| S40 | 4    | superabsorbent same (crosslinked or cross-linked) same weakly                          | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2009/02/23<br>11:55 |
| S41 | 6    | superabsorbent same (crosslinked or cross-linked) same silver same ions                | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2009/02/23<br>12:02 |
| S42 | 56   | superabsorbent same (crosslinked or cross-linked) same ions                            | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2009/02/23<br>12:03 |
| S43 | 243  | superabsorbent same (crosslinked or cross-linked) same low                             | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2009/02/23<br>12:04 |
| S44 | 148  | superabsorbent same (crosslinked or cross-linked) and silver and ions                  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2009/02/23<br>12:05 |
| S45 | 0    | superabsorbent same (crosslinked or cross-linked) and silver and ions and corsslinkers | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2009/02/23<br>12:06 |
| S46 | 46   | superabsorbent same (crosslinked or cross-linked) and silver and ions and crosslinkers | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2009/02/23<br>12:06 |

|     |      |                                                                                                         |                           |    |     |                     |
|-----|------|---------------------------------------------------------------------------------------------------------|---------------------------|----|-----|---------------------|
| S47 | 81   | (lyocell tencell) and silver and poly\$acrylate                                                         | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2009/08/06<br>15:19 |
| S48 | 3    | 10/622882                                                                                               | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2009/08/06<br>15:40 |
| S49 | 24   | 10/286695                                                                                               | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2009/08/06<br>15:40 |
| S50 | 66   | (lyocell tencell) and silver and poly\$acrylate and cross\$2link\$3                                     | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2009/08/06<br>15:42 |
| S51 | 7001 | (cellulose) and silver and poly\$acrylate and cross\$2link\$3                                           | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2009/08/06<br>15:50 |
| S52 | 1574 | (cellulose) and silver and poly\$acrylate same cross\$2link\$3                                          | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2009/08/06<br>15:50 |
| S53 | 107  | (cellulose) and silver near2 ions and poly\$acrylate same cross\$2link\$3                               | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2009/08/06<br>15:50 |
| S54 | 10   | (cellulose) same silver near2 ions and poly\$acrylate same cross\$2link\$3                              | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2009/08/06<br>15:50 |
| S55 | 1    | (cellulose) same silver near2 ions and poly\$acrylate same cross\$2link\$3 same \$3ion same exchange\$2 | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2009/08/06<br>15:54 |
| S56 | 1    | (cellulose) and silver near2 ions and poly\$acrylate same cross\$2link\$3 same \$3ion same exchange\$2  | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2009/08/06<br>15:54 |
| S57 | 80   | (cellulose) and silver and poly\$acrylate same cross\$2link\$3 same \$3ion same exchange\$2             | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2009/08/06<br>15:55 |
| S58 | 0    | "09599811".ap.                                                                                          | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2009/08/06<br>16:13 |
| S59 | 0    | "09599811"                                                                                              | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2009/08/06<br>16:13 |
| S60 | 1    | "09/599811"                                                                                             | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2009/08/06<br>16:13 |
| S61 | 70   | (cellulose) and silver and copper and poly\$acrylate same cross\$2link\$3 same \$3ion same exchange\$2  | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2009/08/06<br>16:50 |
| S62 | 89   | (cellulose) and copper and poly\$acrylate same cross\$2link\$3 same \$3ion same exchange\$2             | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2009/08/06<br>16:51 |

|     |      |                                                                             |                        |    |     |                  |
|-----|------|-----------------------------------------------------------------------------|------------------------|----|-----|------------------|
| S63 | 160  | (lyocell tencell rayon) and silver and poly\$6acrylate same cross\$2link\$3 | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/08/06 16:56 |
| S64 | 1    | "6605751". pn.                                                              | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/08/06 17:04 |
| S65 | 0    | pentsan and elmore and acid                                                 | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/08/06 17:05 |
| S66 | 17   | pentosan and elmore and acid                                                | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/08/06 17:05 |
| S67 | 0    | lyocell same substitute same rayon                                          | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/08/14 14:39 |
| S68 | 1    | lyocell same substitute same rayon                                          | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/08/14 14:39 |
| S69 | 1163 | lyocell same rayon                                                          | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/08/14 14:39 |
| S70 | 685  | lyocell near2 rayon                                                         | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/08/14 14:40 |
| S71 | 233  | lyocell near2 rayon                                                         | USPAT                  | OR | OFF | 2009/08/14 14:40 |
| S72 | 1    | lyocell same rayon same environment                                         | USPAT                  | OR | OFF | 2009/08/14 14:42 |
| S73 | 0    | lyocell same rayon same environmental                                       | USPAT                  | OR | OFF | 2009/08/14 14:42 |
| S74 | 0    | lyocell same rayon same environmental                                       | US-PGPUB; USPAT        | OR | OFF | 2009/08/14 14:42 |
| S75 | 5    | lyocell same rayon same environment                                         | US-PGPUB; USPAT        | OR | OFF | 2009/08/14 14:43 |
| S76 | 109  | cross\$link\$2 near2 polymer same ion same exchanger                        | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/08/14 15:43 |
| S77 | 19   | cross\$link\$2 near2 polymer same ion same exchanger and (silver or sopper) | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/08/14 15:44 |
| S78 | 38   | cross\$link\$2 near2 polymer same ion same exchanger and (silver or copper) | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/08/14 15:44 |
| S79 | 57   | weak\$2 near2 cross\$link\$2 near2 polymer                                  | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/08/14 15:46 |
| S80 | 18   | weak\$2 near2 cross\$link\$2 near2 polymer and cellulose                    | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/08/14 15:46 |
| S81 | 8    | weak\$2 near2 cross\$link\$2 near2 polymer and cellulose and ions           | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/08/14 15:46 |
| S82 | 1    | "20040016909". pn.                                                          | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/08/14 15:50 |

|     |       |                                                                                                                                         |                                                    |    |     |                     |
|-----|-------|-----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|----|-----|---------------------|
| S83 | 177   | lyocell and (anti\$baterial anti\$microbial) and ions                                                                                   | US-PGPUB;<br>USPAT; USOCR                          | OR | OFF | 2009/08/14<br>15:58 |
| S84 | 118   | lyocell and (anti\$baterial anti\$microbial) and ions and silver                                                                        | US-PGPUB;<br>USPAT; USOCR                          | OR | OFF | 2009/08/14<br>15:58 |
| S85 | 99    | lyocell and (anti\$baterial anti\$microbial) and ions and silver and polymer                                                            | US-PGPUB;<br>USPAT; USOCR                          | OR | OFF | 2009/08/14<br>15:58 |
| S86 | 86    | lyocell and (anti\$baterial anti\$microbial) and ions and silver and polymer and cross\$link\$3                                         | US-PGPUB;<br>USPAT; USOCR                          | OR | OFF | 2009/08/14<br>15:58 |
| S87 | 86    | lyocell and (anti\$baterial anti\$microbial) and ions and silver and polymer and cross\$link\$3                                         | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2009/08/14<br>15:58 |
| S88 | 2     | "7157389".pn.                                                                                                                           | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2009/08/14<br>16:07 |
| S89 | 54    | lyocell and (anti\$baterial anti\$microbial) and ions and silver and polymer and cross\$link\$3 and poly\$acrylate                      | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2009/08/14<br>16:12 |
| S90 | 48    | lyocell and (anti\$baterial anti\$microbial) and ions and silver and polymer and cross\$link\$3 and poly\$acrylate and (benzoic sorbic) | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2009/08/14<br>16:12 |
| S91 | 4     | cation same exchange same ion same polymer same cross near2 link\$3                                                                     | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2009/08/14<br>16:18 |
| S92 | 2111  | polymer same cross near2 link\$3 same ion near2 exchange                                                                                | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2009/08/14<br>16:19 |
| S93 | 113   | polyacrylate same cross near2 link\$3 same ion near2 exchange                                                                           | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2009/08/14<br>16:19 |
| S94 | 30320 | polymer same weak\$2 cross near2 link\$3 same ion near2 exchange                                                                        | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2009/08/14<br>16:21 |
| S95 | 227   | polymer same weak\$2 same cross near2 link\$3 same ion near2 exchange                                                                   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2009/08/14<br>16:21 |

|      |      |                                                                                          |                                                    |    |     |                     |
|------|------|------------------------------------------------------------------------------------------|----------------------------------------------------|----|-----|---------------------|
| S96  | 14   | polymer same weak\$2<br>near4 cross near2 link\$3<br>same ion near2 exchange             | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2009/08/14<br>16:21 |
| S97  | 1    | "6288158".pn.                                                                            | US-PGPUB;<br>USPAT; USOCR                          | OR | OFF | 2009/08/14<br>16:24 |
| S98  | 1    | "6110533".pn.                                                                            | US-PGPUB;<br>USPAT; USOCR                          | OR | OFF | 2009/08/14<br>16:24 |
| S99  | 8425 | superabsorbent                                                                           | US-PGPUB;<br>USPAT; USOCR                          | OR | OFF | 2009/08/14<br>16:26 |
| S100 | 1    | superabsorbent and lyocell<br>and silver near2 ions                                      | US-PGPUB;<br>USPAT; USOCR                          | OR | OFF | 2009/08/14<br>16:26 |
| S101 | 1    | super\$1absorbent and<br>lyocell and silver near2<br>ions                                | US-PGPUB;<br>USPAT; USOCR                          | OR | OFF | 2009/08/14<br>16:27 |
| S102 | 1    | super\$1absorbent and<br>lyocell and silver near2 ion<br>\$1                             | US-PGPUB;<br>USPAT; USOCR                          | OR | OFF | 2009/08/14<br>16:27 |
| S103 | 1    | super\$1absorbent and<br>lyocell and (silver copper)<br>near2 ion\$1                     | US-PGPUB;<br>USPAT; USOCR                          | OR | OFF | 2009/08/14<br>16:27 |
| S104 | 52   | super\$1absorbent and<br>lyocell and (silver copper)                                     | US-PGPUB;<br>USPAT; USOCR                          | OR | OFF | 2009/08/14<br>16:27 |
| S105 | 9    | super\$1absorbent and<br>lyocell and (silver copper)<br>and (benzoic sorbic)             | US-PGPUB;<br>USPAT; USOCR                          | OR | OFF | 2009/08/14<br>16:29 |
| S106 | 1    | "6562743".pn.                                                                            | US-PGPUB;<br>USPAT; USOCR                          | OR | OFF | 2009/08/14<br>16:32 |
| S107 | 215  | benzoic same (anti<br>\$bacterial anti\$microbial)<br>same cellulose                     | US-PGPUB;<br>USPAT; USOCR                          | OR | OFF | 2009/08/14<br>17:23 |
| S108 | 0    | benzoic same (anti<br>\$bacterial anti\$microbial)<br>same cellulose and "162".<br>clas. | US-PGPUB;<br>USPAT; USOCR                          | OR | OFF | 2009/08/14<br>17:23 |
| S109 | 12   | benzoic same (anti<br>\$bacterial anti\$microbial)<br>and "162".clas.                    | US-PGPUB;<br>USPAT; USOCR                          | OR | OFF | 2009/08/14<br>17:23 |
| S110 | 50   | benzoic near5(anti<br>\$bacterial anti\$microbial)<br>same cellulose                     | US-PGPUB;<br>USPAT; USOCR                          | OR | OFF | 2009/08/14<br>17:24 |
| S111 | 98   | benzoic and sorbic and<br>copper same antibacterial                                      | US-PGPUB;<br>USPAT; USOCR                          | OR | OFF | 2009/08/14<br>17:28 |

## EAST Search History (1 Interference)

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**exchanger with silver.wsp**